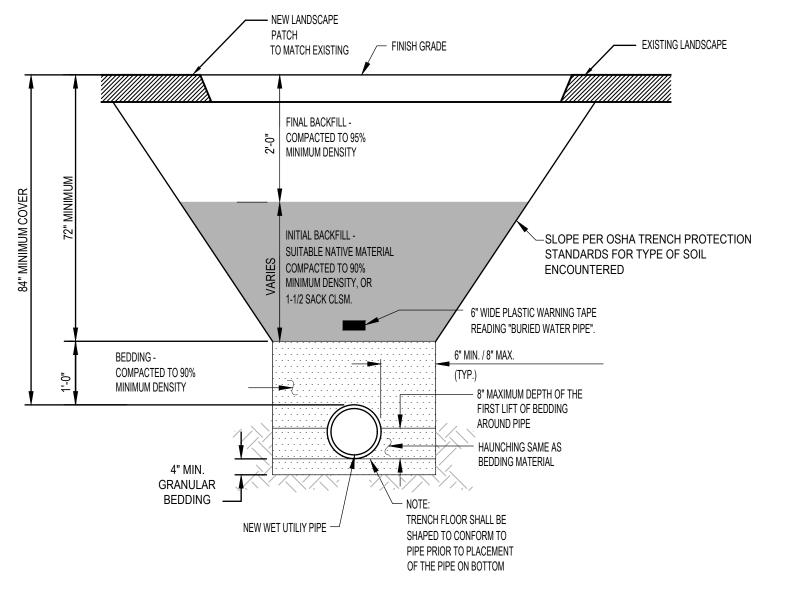
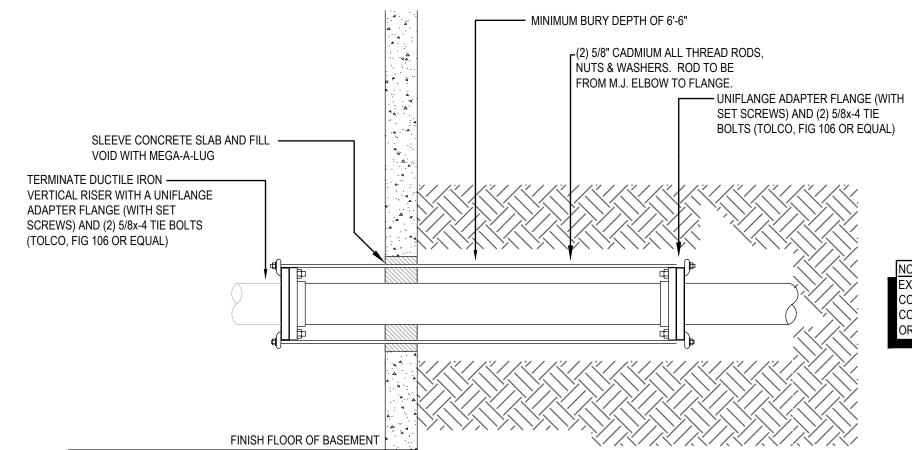


→ FIRE SPRINKLER REFERENCE SITE PLAN



NEW FIRE LINE SECTION

FX1.0 NO SCALE



CALL 1-800-424-5555 BEFORE DIGGING.

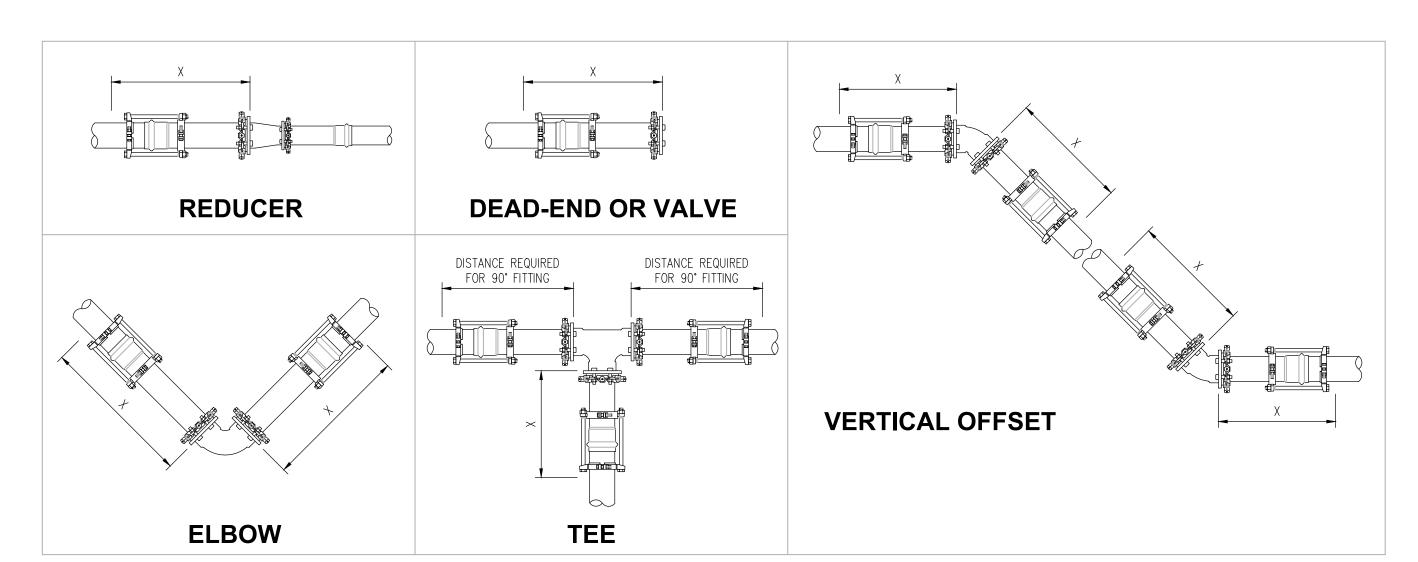
UNDERGROUND LEGEND							
SYMBOL	DESCRIPTION						
<u>∑</u> +	OS&Y VALVE						
8	RISER						
	NEW UNDERGROUND FIRE LINE EXISTING UNDERGROUND FIRE SERVICE/WATER MAIN						
\otimes	TAPPING SLEEVE						
A	THRUST BLOCKING						
CIF	CUT IN FIELD						
UON	UNLESS OTHERWISE NOTED						
TOE	THREAD ONE END						
TBE	THREAD BOTH ENDS						
GOE	GROOVE ONE END						
GBE	GROOVE BOTH ENDS						
T&G	THREAD & GROOVE						
OS&Y	OUTSIDE STEM & YOKE						
W/	WITH						
DN	DOWN						
FG	FINAL GRADE						
AFF	ABOVE FINISHED FLOOR						

UNDERGROUND PIPE MATERIALS MAY BE OF DOMESTIC OR IMPORT ORIGIN PIPE FITTINGS CLASS 51 DUCTILE SEE THRUST BLOCKING DETAILS

GENERAL NOTES

- FIRE PROTECTION SYSTEM SHALL BE DESIGNED, INSTALLED, TESTED, AND FLUSHED IN ACCORDANCE WITH:
- INTERNATIONAL BUILDING CODE (IBC) 2012 EDITION WITH LOCALLY ADOPTED MODIFICATIONS
- NFPA 13 (STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS) 2010 EDITION NFPA 72 (NATIONAL FIRE ALARM AND SIGNALING CODE) - 2010 EDITION
- NFPA 24 (STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES) - 2010 EDITION
- NO INSTALLATION OF ANY PIPING OR EQUIPMENT IS TO BEGIN PRIOR TO APPROVAL OF PLANS BY THE AUTHORITY HAVING JURISDICTION AND THE OWNER'S REPRESENTATIVE
- ALL PAINTING OF FIRE PROTECTION PIPING AND RELATED COMPONENTS TO BE PERFORMED BY OTHER TRADE DIVISIONS.
- ALL ELECTRICAL WIRING OF FIRE ALARM SYSTEM AND FIRE SPRINKLER ELECTRICAL COMPONENTS TO BE PROVIDED IN THIS CONTRACT FIRE SPRINKLER SYSTEM SHALL BE SUPERVISED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE AND NFPA 72 (NATIONAL FIRE ALARM CODE).
- IT IS THE OWNERS RESPONSIBILITY TO PROVIDE ADEQUATE HEAT TO PREVENT FREEZING THROUGHOUT WET PIPE SPRINKLER SYSTEM AREAS AND IN ENCLOSURES FOR DRY PIPE AND OTHER TYPES OF VALVES CONTROLLING WATER SUPPLIES TO SPRINKLER SYSTEMS.

NEW 4" UNDERGROUND PIPE TERMINATION AT SLAB FX1.0 NO SCALE



CONTRACTOR IS TO UTILIZE THE LOWER BACK DOOR DURING ALL CONSTRUCTION WITHIN THE BUILDING. PUBLIC AREAS/HALLWAYS ALL PUBLIC AREAS MUST BE CLEARED OF DEBRIS AND STORAGE AT THE END OF EACH DAY DURING CONSTRUCTION IF STAGING MATERIALS IN PUBLIC AREAS OR HALLWAYS, CONTRACTOR SHALL CLEARLY DELINEATE DAILY STORAGE ZONES WITH SAFETY CAUTION TAPE. AT NO TIME SHALL CONTRACTOR BLOCK EMERGENCY EGRESS PATHWAYS. CONTRACTOR SHALL COMPLETE HOUSEKEEPING AT THE

END OF EACH DAY IN ALL PUBLIC AREAS. CONTRACTOR

SHALL COMPLETE A FINAL CLEAN OF EACH ROOM.

PIPE MINIMUM LINEAR FEET OF PIPE REQUIRED TO HAVE JOINT RESTRAINT 90° 45° 22.5° 11.25° TEE VERTICAL REDUCER DEAD-END OR VALVE 4" | 19'-0" | 8'-0" | 4'-0" | 2'-0" | 19'-0" | 16'-0" | 19'-0" | 26'-0" | 6" | 27'-0" | 11'-0" | 6'-0" | 3'-0" | 27'-0" | 22'-0" | 19'-0" | 37'-0" 8" | 35'-0" | 15'-0" | 7'-0" | 4'-0" | 35'-0" | 29'-0" | 35'-0" | 12" | 50'-0" | 21'-0" | 10'-0" | 5'-0" | 50'-0" | 41'-0" | 60'-0" | 69'-0"

EXACT FOOTING CONFIGURATION UNDER

CONTRACTOR TO VERIFY THROUGH WALL

CONCRETE WALL IS UNKNOWN.

- 1. DESIGNED BASED UPON EBAA, MODEL 1100 MJ RESTRAINT AND MODEL 1700 JOIST RESTRAINT HARNESS
- 2. TABLE BASED UPON WORST CASE TYPE 'CL' FINE GRAINED SOIL; TEST PRESSURES OF 250 PSI; MINIMUM 3.5-FT BURY DEPTH; TYPE-3 TRENCH; AND A 1.5:1 SAFETY
- 3. RESTRAINED JOINT SHALL BE USED ON <u>ALL</u> JOINTS FROM ANY MAIN TEE TO ANY

DUCTILE IRON JOINT RESTRAINT DETAIL WITH SPLIT SERRATED RESTRAINT HARNESS

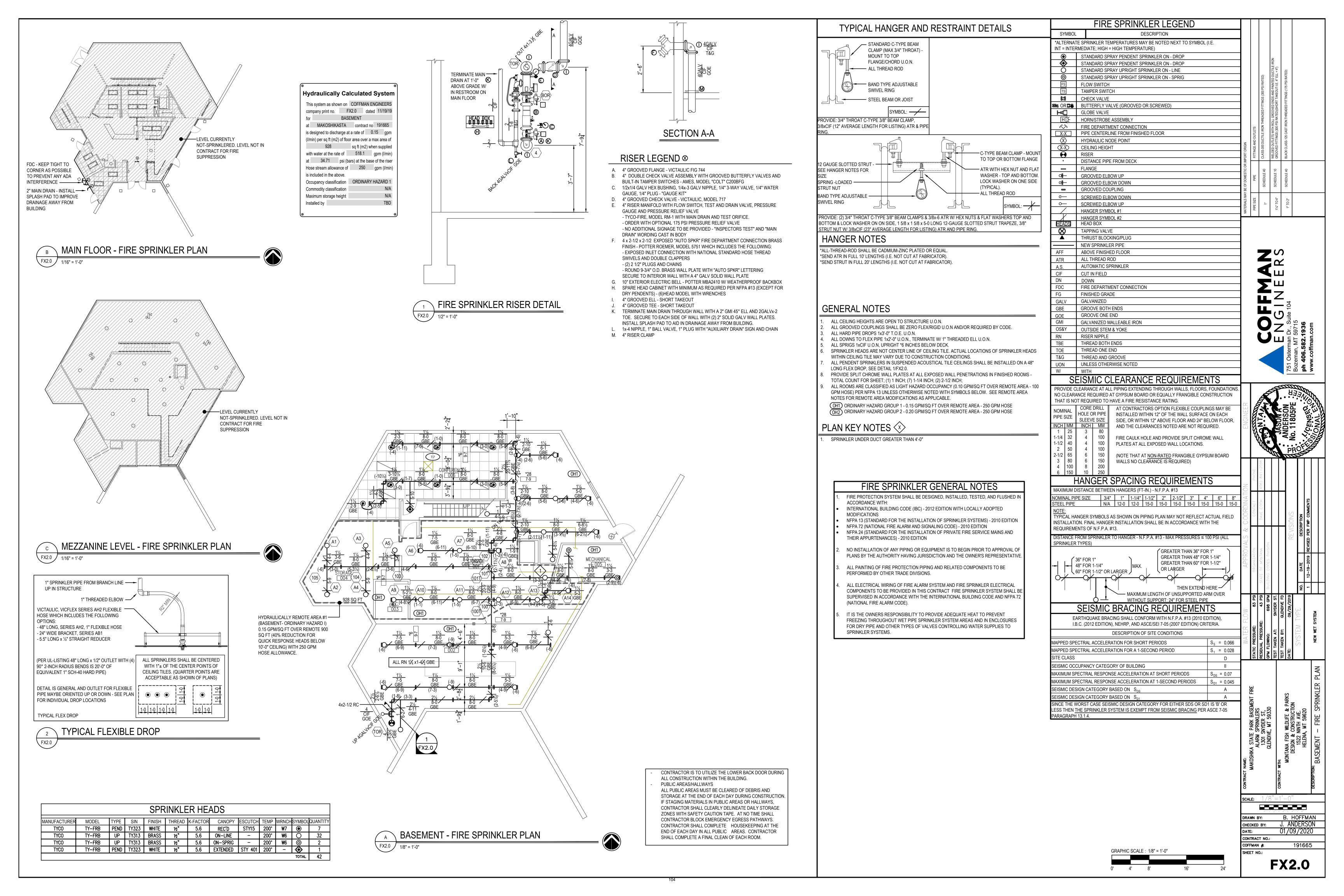
FX1.0 NO SCALE

CHECKED BY: J. ANDERSON

COFFMAN #:

FX1.0

191665



FIRE ALARM NOTES

- 1. FIRE ALARM SYSTEM SHALL COMPLY WITH: A) NFPA 70 (NATIONAL ELECTRIC CODE), 2011
 - B) NFPA 72 (FIRE ALARM CODE), 2013 C) NFPA 90A, 2009
 - D) IBC, 2012 E) ADA/ABA, 2004
- 2. THE FIRE ALARM SYSTEM SHOWN IS BASED ON HOCHIKI PRODUCTS AND REPRESENTS COMPLETE SHOP DRAWINGS FOR INSTALLATION. SUBSTITUTIONS ARE PERMITTED.
- COORDINATE THE EXACT DEVICE LOCATIONS WITH ELECTRICAL AND MECHANICAL SYSTEM EQUIPMENT AND BUILDING ARCHITECTURAL FEATURES. INSTALLING CONTRACTOR SHALL CONSULT/CONFIRM ANY NECESSARY DEVIATION OF DEVICE BOX PLACEMENT OR CONDUIT/CIRCUIT ROUTING WITH THE DESIGNER OF RECORD PRIOR TO IMPLEMENTING
- ALL FIRE ALARM CONDUIT SIZES SHALL BE 3/4" MINIMUM UNLESS OTHERWISE NOTED. ALL CONDUIT SHALL BE CONCEALED IN WALL AND CEILING SPACES WHERE FEASIBLE. IN FINISHED AREAS WITHOUT DROP CEILING, INSTALL SURFACE MOUNTED CONDUIT AS NECESSARY. OWNER TO PROVIDE PAINT TO MATCH FOR SURFACE MOUNTED CONDUIT.
- MINIMUM CIRCUIT PERFORMANCE REQUIREMENTS: IDC - INITIATING DEVICE CIRCUIT SHALL BE CLASS B. NAC - NOTIFICATION APPLICATION CIRCUIT SHALL BE CLASS B.

SLC - SIGNALING LINE CIRCUIT SHALL BE CLASS B.

- 6. "T" TAPPING OF FIRE ALARM NAC CIRCUITS IS PROHIBITED.
- 7. FIRE ALARM CONTRACTOR SHALL PROVIDE TWO EACH OF DETECTORS, MODULES, RELAYS, AND NOTIFICATION APPLIANCES AS SPARE DEVICES TO THE OWNER. *EXCEPTION: OSID AND PANEL COMPONENTS*
- 8. PAINT FIRE ALARM JUNCTION BOX COVERS RED. <u>BOTH</u> SIDES OF COVER
- SHALL BE PAINTED RED.
 9. FIRE ALARM EQUIPMENT CABINETS SHALL HAVE TAGS PERMANENTLY AFFIXED TO THE FACE OF THE ENCLOSURE. LABEL 120VAC CIRCUIT NUMBER SERVING FIRE PANEL. LABEL EACH DEVICE WITH ITS ADDRESS OR NAC DESIGNATOR USING SELF-ADHESIVE LASER PRINTED COMMERCIALLY AVAILABLE ID TAGS. MODULES AND SWITCH LABELS SHALL ALSO INCLUDE ASSOCIATED FUNCTION.
- 10. DO NOT MOUNT SMOKE DETECTORS WITHIN 36" OF AN AIR DIFFUSER OR
- 11. PER 2013 NFPA 72, PARAGRAPHS 10.4.4 & A10.15, SMOKE DETECTORS SHALL BE INSTALLED AT FIRE CONTROL EQUIPMENT IN ACCORDANCE WITH 17.7.3.2.1.
- 12. ALL FIRE ALARM SYSTEM CONTROL RELAYS SHALL BE LOCATED WITHIN 36" OF THE EQUIPMENT OR CIRCUIT THEY CONTROL.

ELECTRICAL NOTES

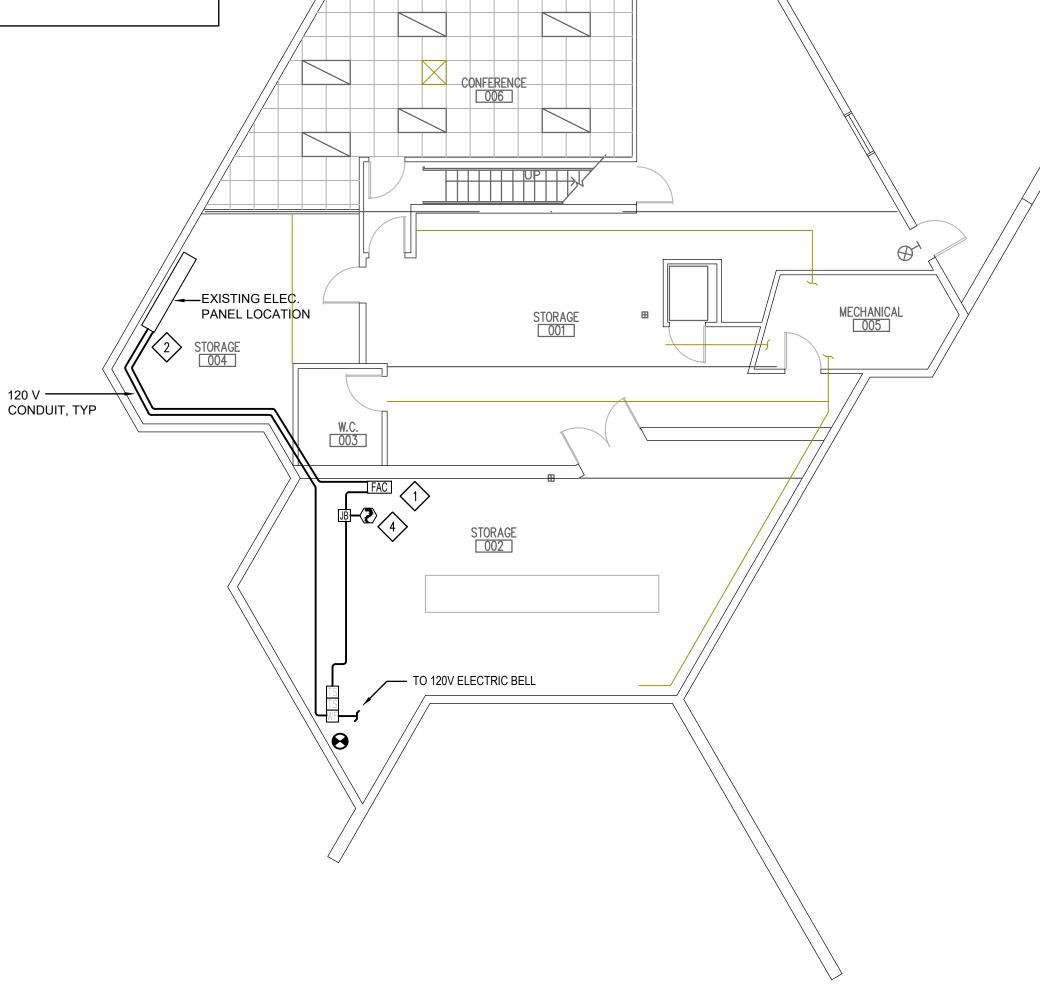
- THE CONTRACTOR SHALL COMPLY WITH THE CONSTRUCTION PRACTICES AND REQUIREMENTS OF THE REFERENCED EDITION OF THE NATIONAL ELECTRIC CODE (2011 NFPA 70), CURRENT NATIONAL ELECTRICAL SAFETY CODE, AND INSTRUCTIONS OF MANUFACTURERS OF EQUIPMENT AND MATERIALS SUPPLIED FOR THE PROJECT.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL JUNCTION AND PULL BOXES REQUIRED FOR THE INSTALLATION OF ELECTRICAL DEVICES AND EQUIPMENT, WHETHER OR NOT SPECIFICALLY INDICATED ON THE PLANS. SIZING OF THESE BOXES SHALL BE PER THE NATIONAL ELECTRICAL CODE.
- TO MAINTAIN THE INTEGRITY OF THE FIRE BARRIER. FIRE STOPPING MATERIAL SHALL BE U.L. LISTED.

ALL PENETRATIONS THROUGH FIRE BARRIERS SHALL BE FIRE STOPPED

- THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE OWNER PRIOR TO MAKING ANY PENETRATIONS THROUGH STRUCTURAL MEMBERS.
- SHOULD PROJECT CONDITIONS REQUIRE REARRANGEMENT OF WORK, THE CONTRACTOR SHALL MARK SUCH CHANGES ON THE AS-BUILT DRAWINGS. IF THESE CHANGES REQUIRE ALTERNATE METHODS TO THOSE SPECIFIED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING THE PROPOSED ALTERNATE METHODS. THE CONTRACTOR SHALL NOT PROCEED UNTIL APPROVAL IS OBTAINED. REARRANGEMENT OF WORK FOR THE PURPOSE OF COORDINATION SHALL NOT BE CONSIDERED AN ITEM FOR EXTRA COST.
- REPAIR ANY DAMAGE TO EXISTING CONSTRUCTION RESULTING FROM THE INSTALLATION OF ELECTRICAL ITEMS. THE AREAS REPAIRED SHALL MATCH THE ADJACENT SURFACES IN TEXTURE AND COLOR.

- 7. ALL EXPOSED AND CONCEALED CONDUITS SHALL BE EMT (ELECTRICAL METALLIC TUBING). ALL UNDERGROUND CONDUIT SHALL BE PVC CONDUIT SCHEDULE 40, UNLESS NOTED OTHERWISE. USE FLEXIBLE METAL CONDUIT AND SEAL-TIGHT WHERE APPLICABLE.
- 8. ALL EQUIPMENT SHALL BE CAPABLE OF FITTING IN THE SPACES LOCATED WHILE MEETING THE MANUFACTURER'S RECOMMENDED ACCESS REQUIREMENTS. REVIEW ALL PLACES WHERE EQUIPMENT IS TO BE INSTALLED PRIOR TO ORDERING OF EQUIPMENT AND NOTIFY THE CONTRACTING OFFICER OF ANY INADEQUATE CLEARANCES OR CONDITIONS THAT WILL PREVENT THE PROPER INSTALLATION,
- MAINTENANCE, AND OPERATIONS OF THE EQUIPMENT. PROVIDE ACCESS PANELS TO ALL CONCEALED TRANSFORMERS, DEVICES, JUNCTION BOXES AND EQUIPMENT. COORDINATE THE LOCATION OF ACCESS PANELS TO INSURE THAT THE EQUIPMENT CAN BE MAINTAINED
- 11. ALL 120VAC CIRCUIT BREAKERS SERVING FIRE ALARM EQUIPMENT SHALL BE RED AND LOCKABLE. PROVIDE BREAKER LOCK ON DEVICE(S).
- 12. ANY PENETRATION OF THE BUILDING VAPOR BARRIER SYSTEM SHALL BE APPROPRIATELY SEALED TO RETAIN THE INTEGRITY OF THE SYSTEM. THIS INCLUDES BUT IS NOT LIMITED TO CONDUITS AND BACKS OF ELECTRICAL
- ALL EQUIPMENT AND CABLE SHALL BE PROPERLY RATED FOR THE CONDITIONS IN WHICH IT IS INSTALLED.

- 14. ALL EQUIPMENT IN FINISHED AREAS SHALL BE FLUSH OR SEMI-FLUSH MOUNTED TO THE EXTENT SUPPORTED BY THE MANUFACTURER AND ALLOWED BY CODE. ENSURE ADEQUATE CLEARANCES FOR HINGED COVERS/DOORS.



CONTRACTOR IS TO UTILIZE THE LOWER BACK DOOR DURING

STORAGE AT THE END OF EACH DAY DURING CONSTRUCTION.

ALL PUBLIC AREAS MUST BE CLEARED OF DEBRIS AND

IF STAGING MATERIALS IN PUBLIC AREAS OR HALLWAYS,

CONTRACTOR SHALL CLEARLY DELINEATE DAILY STORAGE

ZONES WITH SAFETY CAUTION TAPE. AT NO TIME SHALL CONTRACTOR BLOCK EMERGENCY EGRESS PATHWAYS.

CONTRACTOR SHALL COMPLETE HOUSEKEEPING AT THE

END OF EACH DAY IN ALL PUBLIC AREAS. CONTRACTOR

SHALL COMPLETE A FINAL CLEAN OF EACH ROOM.

ALL CONSTRUCTION WITHIN THE BUILDING.

PUBLIC AREAS/HALLWAYS

FAC FIRE ALARM COMMUNICATOR PANEL

MATERIAL KEYNOTES

- ADDRESSABLE SMOKE DETECTOR JUNCTION BOX
- W WATERFLOW SWITCH
- TAMPER SWITCH
- MANUAL FIRE ALARM / PULL STATION

GENERAL NOTES

1. FIRE ALARM DESIGN TO EXCLUSIVELY MONITOR WATERFLOW, SUPERVISORY, AND GATE VALE TAMPER CONDITIONS.

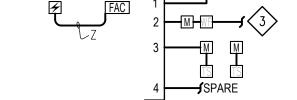
PLAN KEY NOTES 🕸

- 1. NEW HOCHIKI 4555 4 ZONE FIRE PANEL W/ BUILT IN PRIMARY GSM CELLULAR COMMUNICATOR OR EQUAL
- FIELD ROUTE 120 V CONDUIT TO NEW FIRE ALARM PANEL LOCATION AND ELECTRIC BELL 120 V ELECTRIC ALARM BELL
- 4. SYSTEM SENSOR SMOKE DETECTOR MODEL 4W-B (4-WIRE, 23 Ma @ 24V) OR EQUAL

COFFMAN #:

CHECKED BY: J. ANDERSON

FX3.0



OPERATIONAL MATRIX

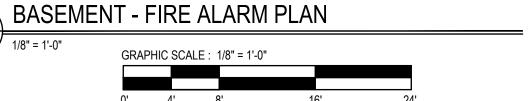
SUPERVISORY STATION

STATION

WATERFLOW SWITCH TO ENGAGE ELECTRIC BELL AND ALARM PANEL TAMPER SWITCH TO SUPERVISORY ALARM AT PANEL AND SEND TO

SMOKE DETECTOR TO ALARM PANEL AND NOTIFY RESPONDING

FIRE ALARM - RISER DIAGRAM



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GENERAL SYSTEM SPECIFICATIONS PART 1- GENERAL
1.1 SCOPE
  A. Furnish and install an automatic sprinkler system to protect the the basement floor only, as shown on the drawings, with accessories
     as necessary. Connect system to a water supply of sufficient pressure to ensure full and sustained water discharge immediately from
       sprinkler heads. Water supply shall conform to NFPA water supply requirements. Furnish and install a Fire Alarm system to monitor
      the automatic sprinkler system in accordance with NFPA #72. Install an underground Fire Service line from the existing 6" city water
       main in the street as shown on the drawings and in accordance with NFPA #24.
  B. All portions of the systems shall be installed in accordance with the drawings, details, and specifications and as required by
       jurisdictional authorities and codes. The position is taken that the Owner is entitled to a project which meets or exceeds the minimum
       requirements of nationally recognized fire protection standards. All efforts and installations shall be directed toward this end. Where
       there is conflict between the contract drawings and/or specifications, and the requirements of the jurisdictional authorities or codes,
       the conflict shall be brought to the attention of the Engineer at least ten (10) days prior to bidding or be resolved at no cost to the
       Owner. If the contractor has not identified conflicts to the Engineer, he shall be responsible for complying with the most restrictive
        (expensive) methods.
1.2 REGULATORY AGENCIES
  A. The term jurisdictional authority used in this section of the specification shall include, as applicable, but not be limited to the following:
       1. Glendive Fire Department
       Glendive Water Department
     3. State of Montana Building Department
      4. Insurance Services Office or Insuring Authority having jurisdiction.
  B. The design and installation of all systems of fire protection shall conform to all requirements of applicable codes and publications
       herein defined:

    International Building Code (2012)

     2. NFPA #13 (2010)
       3. NFPA #24 (2010)
       4. NFPA #72 (2010)
     All State and local ordinances
       6. Underwriters' Laboratories
1.3 SUBMITTALS
  A. General
     1. These drawings represent complete shop drawings and have already been submitted to the authorities have jurisdiction for
          approval. The successful Contractor shall provide submittal data as required under other portions of this specification.
  B. Installer's Qualifications
     1. All systems of fire protection shall be installed by a licensed (for the location of installation) Fire Protection Contractor, fully
          experienced in fire protection installation as required and specified herein.
     2. All installers shall be competent and shall hold an endorsement by the State of Montana. Prior to beginning work, current
          Contractor's and Installer's license and endorsements shall be on file with the Department of Commerce Professional and
          Occupational Licensing Bureau (301 South Park, P.O. Box 200513, Helena, MT 596200513).
     3. Fire Protection Contractors may be required to provide in writing specific information as to successfully completed projects and
          references to show cause as to why they should be considered acceptable to the engineer.
  C. Close-Out
     1. Record Drawings required per paragraph 1.5 and Operation and Maintenance Manuals required per paragraph 1.6, shall be
          submitted for approval.
1.4 JOB CONDITIONS
  A. The Contractor shall investigate the structural, mechanical, electrical, and finished conditions affecting the piping, and shall arrange
      the equipment accordingly; furnishing required fittings, offsets and accessories. Route fire protection piping to avoid interference with
      duct work and drain piping. In the event it becomes necessary to make field changes in pipe locations due to building construction,
       the Contractor shall consult with the Engineer before making any changes. Any such changes required shall be made without added
  B. The Contractor shall determine, and be responsible for, the proper locations and type of inserts for hangers, chases, sleeves, and
       other openings in the construction required for fire protection work, and shall obtain this information well in advance of the
       construction progress to avoid delay of the work.
  C. The drawings indicate approximate locations of sprinkler heads and conceptual routing of piping. Contractor is responsible for final
       locations and routing. Contractor shall review all contract documents including architectural, structural, mechanical, electrical, etc. for
      actual contract conditions.
  D. All fees and permits specifically required for fire protection work, not obtained by others as specified elsewhere shall be applied for
       and paid for by this Contractor.
1.5 RECORD DRAWINGS
  A. One approved set of drawings shall be maintained on the job at all times.
  B. One set of "As-Built" drawings shall be kept on the job at all times. "As-Built" drawings shall be kept current daily. "As-Built" drawings
      shall be available at all times to Engineer for review and use.
  C. One reproducible set of "As-Built" drawings shall be provided to the Engineer upon completion of the work.
1.6 OPERATION AND MAINTENANCE MANUALS
  A. Three (3) sets of operating and maintenance instructions shall be provided the Owner upon completion. Manuals shall include, as a
       minimum, the following:
       1. "As-Built" Drawings
       2. Catalog cut sheets of all materials installed
       3. Equipment maintenance manuals
       4. Acceptance Test Certificate for the Automatic Sprinkler System
       5. Acceptance Test Certificate for the Fire Alarm System
       6. Certification of Owner Training
       7. Contractor Guarantee and Warranty
        "As-Built" Auto CAD drawing (.dwg) file or equal on CI
  B. One (1) copy of NFPA #25 (2010) shall be provided to the Owner.
  A. The Contractor shall instruct the Owner in the operation of all systems. Instruction shall continue until the Owner is fully satisfied that
      he understands the operation of his system
  B. Contractor shall obtain Owner's dated signature that all training has been accomplished and is acceptable to the Owner.
1.8 GUARANTEES AND WARRANTIES
  A. The Contractor shall guarantee to the Owner in writing, all equipment and workmanship for a period of one (1) year after the fire
       protection system has been placed in continuous service and has been accepted by all authorities having jurisdiction.
  B. The Contractor shall not be held responsible for improper or negligent maintenance by the Owner after operating and maintenance
       indoctrination has been given the Owner.
PART 2- PRODUCTS
2.1 SYSTEM EQUIPMENT
  A. Where contract documents indicate specific model number or manufacturer; Contractor may substitute identical equipment approved
     for fire protection use. Similar equipment may be substituted if Contractor submits revised design, substituted materials, and revised
      calculations for approval.
2.2 PIPE AND FITTINGS - UNDERGROUND
  A. All underground pipe, fittings, and valves shall conform to NFPA #13 and NFPA #24 requirements.
  B. Piping underground shall be Class 52 ductile iron pipe or as required by the local utility company. Straight runs of pipe with no offsets
       may be rubber joint with bell and spigot. All fittings shall consist of mechanical joint type.
   C. All buried pipe and fittings shall be installed in a sand bedded trench, 6" under pipe and filled with sand to 12" minimum above pipe.
  D. Prior to connection to existing water line and covering of piping, block or rod underground piping and fittings for static and surge
       pressures. Furnish and install concrete thrust blocks and joint ties at each change in direction of all underground piping or with use of
       mechanical joint restraints in accordance with NFPA #13 and NFPA #24 requirements.
  E. Prior to connection to existing water line, the Water Authority having jurisdiction shall be contacted so that they can inspect the
       procedures used.
  F. All underground pipe shall be tested and flushed in accord with NFPA #13 and NFPA #24 requirements.
  G. Any disturbance to the existing landscape or sidewalk shall be repaired to match existing conditions.
PART 3- EXECUTION
3.1 INSTALLATION
  A. Where details of installation are not given, the installation shall be made using manufacturer's recommended practices or at the
      direction of the Engineer.
  B. Contractor shall complete the all systems ready for operation, in all respects, as soon as possible. When system is complete and
       ready for continuous operation, activate the system for its intended use. After system has been activated for continuous use, water
       charges will be paid by the Owner.
  C. This Contractor shall remove from the building and site, all rubbish and unused materials due to or connected with this installation.
  D. The surface of all piping shall be cleaned and left ready for painting.
  A. All testing shall be accomplished in accord with NFPA standards and requirements.
  B. This Contractor shall call for inspection and complete Contractor's Material and Test Certificates signed by the authority having
  C. The entire sprinkler system shall be hydrostatically tested at not less than 200 psig pressure for a period of not less than two (2) hours
       with no pressure drop in the system.
  D. The Fire Alarm system shall be test in accordance with NFPA #72.
   E. The Underground system shall be flushed and test in accordance with NFPA #24.
  F. All testing shall be witnessed by a representative of the Engineer or Owner.
  G. Where jurisdictional authority's standards are more stringent than the above test, they shall prevail.
  H. Furnish copies of Aboveground Test Certificate with close-out documentation.
END OF SECTION
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ENGINEERS

751 Osterman Dr., Suite 104

Bozeman, MT 59715

ph 406.582.1936

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APPROVALS & COURDINATION	PHONE	(406) 841-2056									
	CONTACT	DAVE COOK				REVISIONS		DESCRIPTION	12-19-2019 REVISED PER FWP COMMENTS		
	ATION	TANA	DIVISION						REVISED PER		
AFF	CRGANIZATION	STATE OF MONTANA	BUILDING CODES DIVISION					. DATE	12-19-201		
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DRAWN BY:

B. HOFFMAN

CHECKED BY:

J. ANDERSON

DATE:

01/09/2020

CONTRACT NO.:

COFFMAN #:

191665

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